

SNS Ring Vacuum Control System Software Task List

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1. Interface Control Definition **(DONE-preliminary)**
Operation Requirements for :
 - Ion Pumps and Ion Pump Controllers
 - (Cold Cathode and Thermal Conductivity) Gauges and Gauge Controllers
 - Turbo Molecular Pumps and TMP Controllers
 - Residual Gas Analyzers and RGA Controllers
 - Sector Valves and PLC Controls
2. IOC EPICS drivers & PLC ladder logic
 - RS 485 + IP Controller driver
 - RS 485 + Gauge Controller driver
 - RS 485 + TMP Controller driver (optional)
 - RS 485 + RGA Controller driver
 - PLC ladder logic for sector valve interlock controls
 - PLC ladder logic for RF and other beam inhibit controls
 - PLC ladder logic for TMP control
 - PLC/VME interface via ControlNet driver or EtherNet/IP driver **(DONE)**
3. Operator screens and EPICS database for HEBT, Ring and RTBT
 - 1278 I/O points (digitals and analogs)
 - 39 interlock and 4 PLC system status
4. Documentations
 - Software Installation Procedures
 - SNS Ring Vacuum Control System User's Guide
 - SNS Ring Vacuum Control System Design Documentation